

Product Data Sheet

PerCP/Cy5.5 anti-mouse Ly-6A/E (Sca-1)

Catalog # / Size: 122523 / 25 µg
122524 / 100 µg

Clone: E13-161.7

Isotype: Rat IgG2a, κ

Immunogen: mouse pre-T cells

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**

Applications:

Applications: FC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 µg per 10⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and 564 nm and a maximum emission of 690 nm.

Application Notes: Additional reported applications (for the relevant formats) include: complement-mediated cytotoxicity¹, immunohistochemical staining of frozen sections^{2,4} and immunofluorescence microscopy⁴, and immunoprecipitation³.

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Application References:

1. Aihara Y, *et al.* 1986. *Eur. J. Immunol.* 16:1391. (CMCD)
2. Spangrude GJ, *et al.* 1988. *J. Immunol.* 141:3697. (IHC)
3. van de Rijn M, *et al.* 1989. *P. Natl. Acad. Sci. USA* 86:4634. (IF)
4. van Bragt MPA, *et al.* 2005. *Biol. Reprod.* 73:634. (IHC IF)
5. Rosas M, *et al.* 2010. *J. Leukoc. Biol.* 88:169. PubMed

Description: Ly-6A/E is an 18 kD member of the Ly-6 multigene family also known as Sca-1. Ly6A/E is a glycosylphosphatidylinositol (GPI)-linked protein expressed on hematopoietic stem cells. In mice expressing the Ly-6.2 haplotype (e.g., AKR, C57BL, C57BR, DBA/2, SJL, SWR, and 129), Ly-6A/E is also expressed on peripheral B lymphocytes and thymic and peripheral T lymphocytes. Strains expressing the Ly-6.1 haplotype (e.g., BALB/c, CBA, C3H/He, DBA/1, and NZB) have low Ly-6A/E expression on resting peripheral lymphocytes. The expression of Ly-6A/E on lymphocytes is upregulated upon activation from both Ly6.1 and Ly6.2 haplotype mice. Ly-6A/E is thought to be involved in the regulation of both T and B cell responses. The E13-161.7 antibody has been reported to be useful for immunohistochemical staining of frozen sections, immunoprecipitation, flow cytometry, and complement-mediated cytotoxicity.

Antigen References:

1. Rock KL, *et al.* 1989. *Immunol. Rev.* 111:195.
2. Morrison SJ, *et al.* 1994. *Immunity* 1:661.
3. Spangrude GJ, *et al.* 1988. *J. Immunol.* 141:3697.
4. Malek T, *et al.* 1986. *J. Exp. Med.* 164:709.

Related Products:

| | | |
|---------------------------------------|--------------|--------------------|
| Product | Clone | Application |
| Cell Staining Buffer | | FC, ICC, ICFC |
| PerCP/Cy5.5 Rat IgG2a, κ Isotype Ctrl | RTK2758 | FC, ICFC |
| TruStain fcX™ (anti-mouse CD16/32) | 93 | FC |



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